

Human Peroxiredoxin 5 (PRDX5) ELISA Kit | PRDX5 elisa kit

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CATALOG #
AAA186917

REACTIVITY
Human

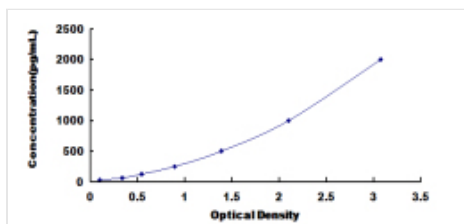
PRODUCT SYNONYMS

Peroxiredoxin 5 (PRDX5); Human Peroxiredoxin 5 (PRDX5) ELISA Kit; PLP; PRDX6; ACR1; PMP20; PRXV; SBB10; Thioredoxin Peroxidase PMP20; Peroxisomal Antioxidant Enzyme; TPx Type VI; Liver Tissue 2D-Page Spot 71B; Alu Co-Repressor 1; PRDX5 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Peroxiredoxin 5 (PRDX5). No significant cross-reactivity or interference between Peroxiredoxin 5 (PRDX5) and analogues was observed.
Sequence Length	190
Assay Type	Double-antibody Sandwich
Samples	Tissue Homogenates, Cerebrospinal Fluid and Other Biological Fluids
Detection Range	31.25-2000pg/mL
Sensitivity	< 12.8pg/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Peroxiredoxin 5 (PRDX5) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Peroxiredoxin 5 (PRDX5) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PRDX5 elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Peroxiredoxin 5 (PRDX5). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Peroxiredoxin 5 (PRDX5). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Peroxiredoxin 5 (PRDX5), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Peroxiredoxin 5 (PRDX5) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	78709078
NCBI GeneID	3771951
NCBI Accession #	NP_650679.3
NCBI GenBank Nucleotide #	NM_142422.5
UniProt Accession #	Q960M4
Molecular Weight	19,896 Da
NCBI Official Full Name	peroxiredoxin 5, isoform A
NCBI Official Synonym Full Names	Peroxiredoxin 5
NCBI Official Symbol	Prx5
NCBI Official Synonym Symbols	CG 32920; CG 7217; CG32920; CG7217; DmelCG7217; dprx5; dPrx5; dPrxV; prx5
NCBI Protein Information	CG7217 gene product from transcript CG7217-RA
UniProt Protein Name	LD45324p
UniProt Gene Name	Prx5

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.